

Type-C USB 2-3S BMS 15W

Fast Charge With Indicator

With Balanced

IP2326 Chip





2S/3S/4S/5S Boost Voltage Fast Charging Lithium Battery Charging Module

INTRODUCTION

LX-LIFC1 is a widely used lithium battery charging module, which has been maturely applied to high-power charging packs, and has a voltage rise and drop mode of charging. It supports the charging of multiple series of lithium batteries. No matter the input voltage is higher, lower or equal to the battery voltage, the battery can be charged. The battery charging is divided into three stages: pre charging, constant current and constant voltage process.

FEATURES

Support QC fast charging

Maximum 18W rise and fall voltage charging

Support 4.5-15V wide voltage

Support 1 to 5 series of lithium batteries or lithium iron phosphate batteries

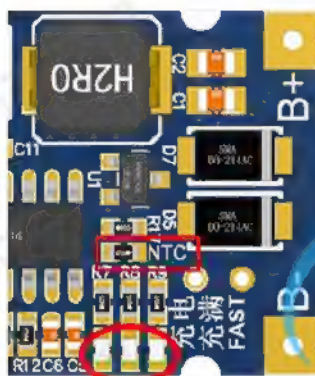
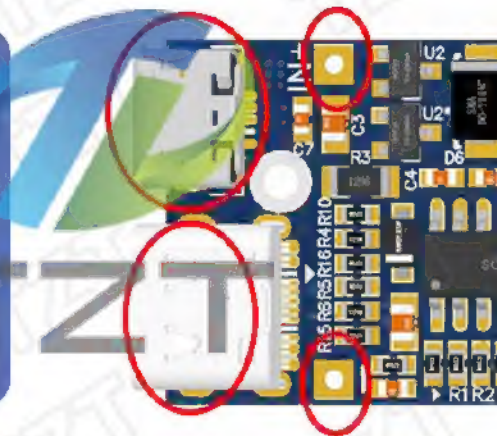
The charging cut-off voltage can be set with pre charging, constant current and constant voltage. We Are The Distributor Of TZT Brand In Hong Kong, China.

Type-c and microUSB input

Working environment temperature range - 20 °C~85 °C

DETAILS

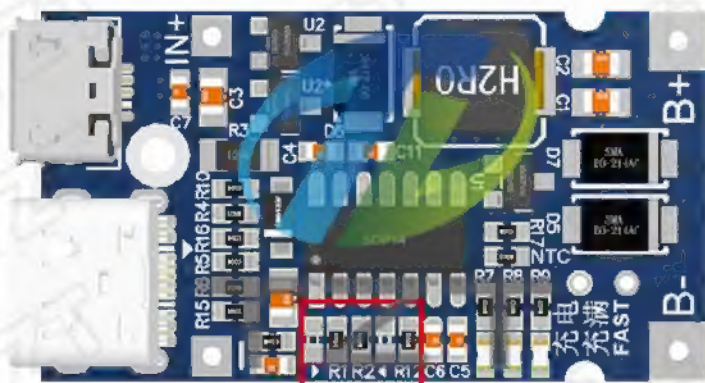
There are three interfaces for power supply input. The microUSB and type-c interfaces can be connected to the power supply with a USB charging cable, and support the QC fast charging protocol. The default is 12V, and the default is 9V fast charging after the red box is shorted. In addition, the input can be directly wired with "IN+" and "IN-", and the voltage range can be



For the battery welding interface, the red arrow is connected to the positive pole of the battery, and the black month can be connected to the human pole. Before connecting the battery, you must confirm whether the number of cells in series corresponds to the board setting. You can use a multimeter to measure B+, and the voltage difference between B+ and B- knows that the voltage is about to be fully charged. You must add a protective plate on multiple series batteries, and the batteries must be welded.

When charging the battery, the "Charge" indicator is on. If the charging head supports the QC fast charging protocol, enter the fast charging mode. After the battery is fully charged, the "Full Charge" indicator is on.

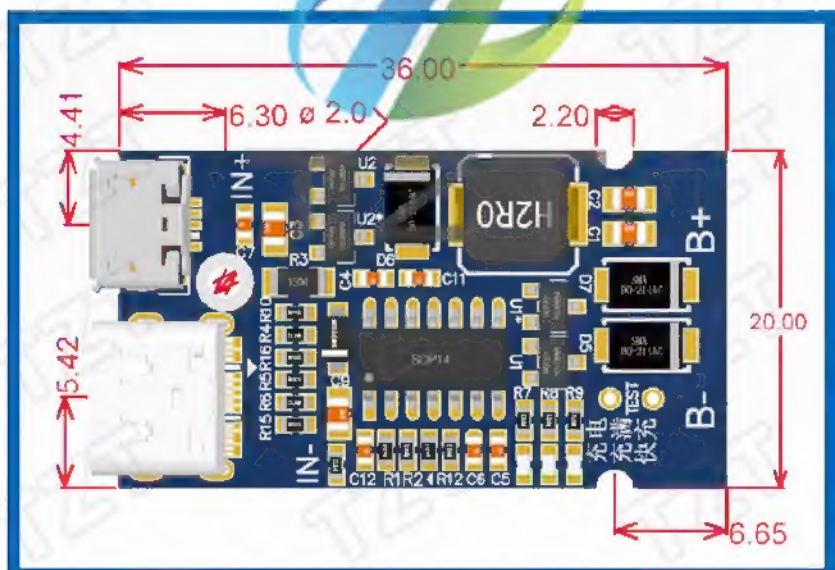
If NTC temperature is required, remove the NTC resistor and connect a 10K NTC resistor to the back port.



The board provides several common charging applications by default. If you need to change the charging voltage, for example, the lithium iron phosphate battery can be equipped with its own resistance. The formula is as follows:

$$\text{Battery voltage} = 1.8V (1 + R1/R2)$$

Note: If the measured voltage is on the high side or on the low side, the compensation resistance can be added for adjustment. When the voltage is on the low side, add a 2M (or other value) 0603 resistance to the empty position on the right side of R2. If the voltage is on the high side, add a 2M (or other value) 0603 resistance to the left side of R1 resistance.



RESISTANCE RECOMMENDATION TABLE

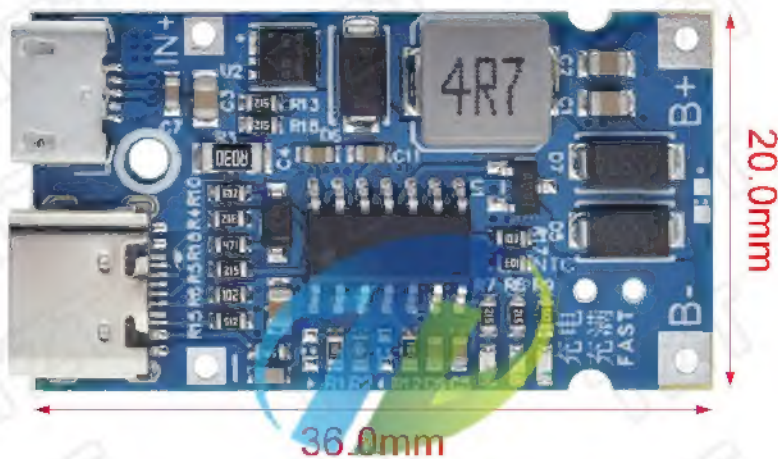
Cut off voltage	R1' (0603)	R1 (0603)	R2 (0603)	R2' (0603)	Number of battery strings
3.65	30K	180K	25K	NC	1C
7.3	NC	110K	36K	NC	2C
10.95	NC	51K	10K	NC	3C
14.6	NC	100K	14K	NC	4C
18.25	NC	110K	12K	NC	5C
21	NC	160K	15K	NC	5S
16.8	NC	300K	36K	NC	4S
12.6	NC	180K	30K	NC	3S
8.4	NC	110K	30K	NC	2S

INDICATOR STATUS DISPLAY

(note: there is no quick charge indicator for the version with NTC)

Working Condition	Charge	Full
No Battery Connected	Extinguish	Bright
Charging	Bright	Extinguish
Battery is Fully Charged	Extinguish	Bright
Battery Short Circuit	0.25S flash	Extinguish
Fast Charging Indicator	VCC<7V	VCC>7V
QCLED	Extinguish	Bright

TZT Weight : 4.50g



TZT

2S/3S/4S/5S Fast Charging
Lithium Battery Charging Module



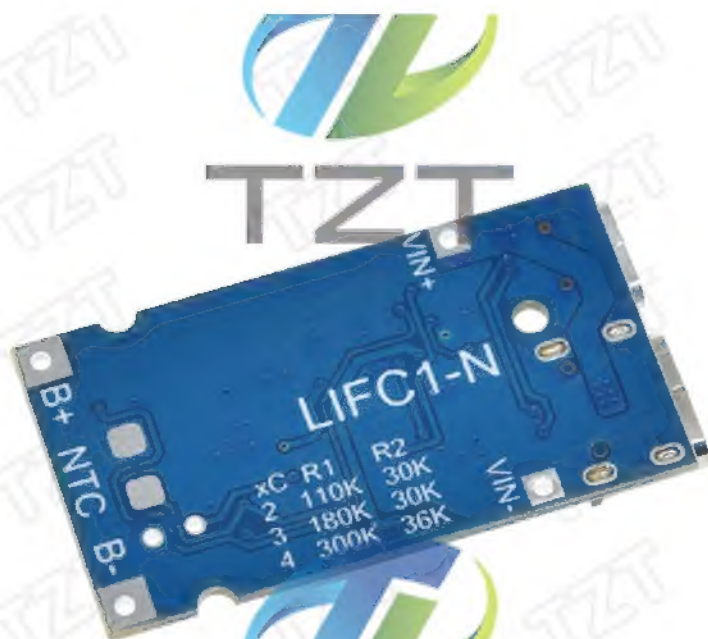

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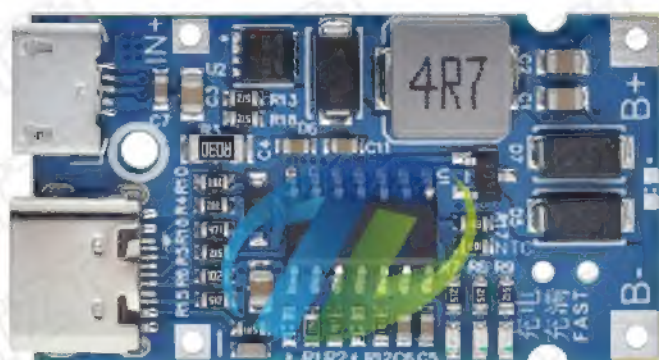


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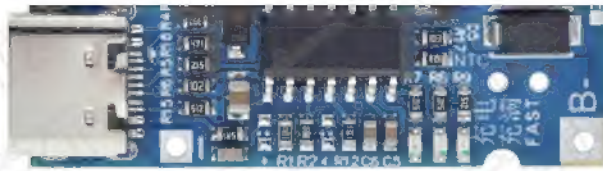
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2S Fast Charging Lithium Battery Module

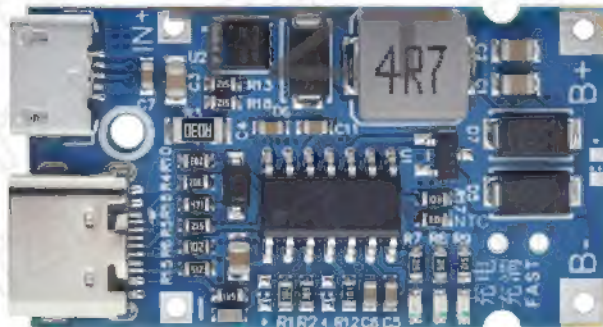
3S





3S Fast Charging Lithium Battery Module

4S



4S Fast Charging Lithium Battery Module

5S

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5S Fast Charging Lithium Battery Module